

SoftChip Modem

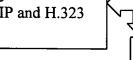
MODEM

COTS V.34 28.8kbps (upgradeable to V90 56kbps or higher as "plug in" device)



Fixed Logic (FPGA or MP)

- Multiplexing/Demultiplexing data
- [add protocol layers as TCP/IP and H.323 to use as into an IP phone]



DOWNLOADING

Provides FPGA content downloading

Variable Logic (FPGA)

Functionality may be downloaded via modem

Functionality organized as sequential components in data processing stream. Component algorithms as following:

- Encode/Decode based on PGP
- DRM management with credentials accessed via modem
- ..
- Logic downloading protocol

Storing data as following:

- System identification
- System state (version and description of variable logic as ordered list of components)
- PGP public/private keys
- DRM (Digital rights management keys)



CODEC 1

COTS G723 algorithm 6.4kbps Later may be embedded

PHONE PORT



CODEC 2

COTS G723 algorithm 6.4kbps Later may be embedded

PHONE PORT

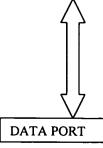
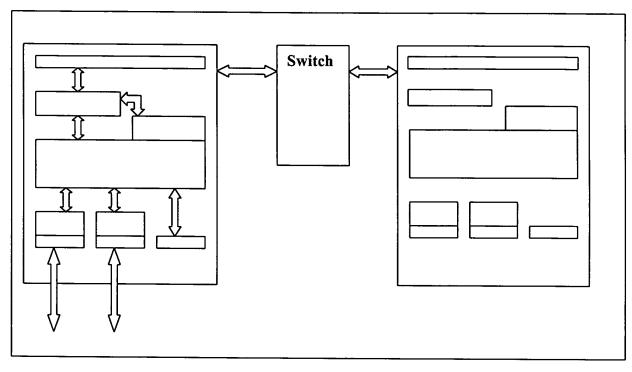


FIGURE 2.

Scenario #1 - one to one SCM



No additional environment required on the central Switch side. Each SCM may have more than one voice attached to it.



Scenario #2 - one SCM to two different destinations

Additional multiplexing environment required on the central Switch side.

